

APPENDIX E

VARIANCES/NONCONFORMANCES



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87Q-XFEBRUARY01.VR1

Linked w/NC No: X

Date of Issue: 2/28/01

Page 1 of 1

Project Name: Fort McClellan - CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed using hollow-stem augers to install residuum monitoring wells HR-87Q-MW01, HR-87Q-MW02, HR-87Q-MW09, and HR-87Q-MW19. These four monitoring wells were installed using air rotary drilling techniques.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 2-28-01

II. Justification for Variance:

The FSSFSP proposed drilling with hollow-stem augers at permanent residuum monitoring well locations HR-87Q-MW01, HR-87Q-MW02, HR-87Q-MW09 and HR-87Q-MW19. Hollow-stem auger refusal was encountered and groundwater was not present during drilling activities. Several attempts were made to install the four monitoring wells, but all attempts were unsuccessful. Therefore, a decision was made by the IT Site Manager to install residuum monitoring wells HR-87Q-MW01, HR-87Q-MW02, HR-87Q-MW09 and HR-87Q-MW19 using air rotary drilling techniques. During air rotary drilling competent bedrock was encountered, but groundwater was not present. After consultation with the U.S. Army Corps of Engineers, a decision was made to install the four wells on top of competent bedrock without the presence of groundwater.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcel 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 3-20-01 Date

Approved by: Stanley E. Parrott (COE) 3-20-01 Date

Project Manager Approval: Jeanne Yacoub 3/20/01 Date

QA Approval: Randy McBride 3/20/01 Date



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87QMAY01.VR1

Linked w/NC No:

X

Date of Issue: 5/04/01

Page 1 of 1

Project Name: **Fort McClellan – CK10 \ WAD11**

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-87Q-MW17. Permanent residuum monitoring well HR-87Q-MW17 was moved approximately 90 feet west of its proposed location and approximately 40 feet west of the direct-push soil sample location HR-87Q-MW17.

Identified by: Jeffrey Tarr, PG – IT Site Manager

Date: 5-04-01

II. Justification for Variance:

The FSSFSP proposed sample location HR-87Q-MW17 in the southwest corner of a bullet impact area. The direct-push drill rig and hollow-stem auger drill rig could not access the proposed location because of a steep slope and rough terrain unsafe for the two drill rigs to access. Therefore, a decision was made to relocate sample location HR-87Q-MW17 approximately 40 feet west of its proposed location and the direct-push soil samples were successfully collected. During drilling activities using hollow-stem augers, competent bedrock was encountered and groundwater was not present. Therefore, a decision was made to move permanent residuum monitoring well HR-87Q-MW17 approximately 50 feet west of the direct-push soil boring location HR-87Q-MW17. Groundwater was encountered at approximately 7 feet below land surface and the well was successfully installed. This variance will not alter the scope or intent of the Site Investigation at Range 29.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 5-04-2001
Date

Approved by: [Signature] 5/8/01
Date

Project Manager Approval: [Signature] 5/9/01
Date

QA Approval: [Signature] 5/21/01
Date



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87QMAY01.VR2

Linked w/NC No:

X

Date of Issue: 5/04/01

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Project Name: **Fort McClellan** - CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at sample location HR-87Q-MW18. Permanent residuum monitoring well HR-87Q-MW18 was moved approximately 200 feet west of its proposed location.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 5-04-01

II. Justification for Variance:

The FSSFSP proposed sample location HR-87Q-MW18 in the northern portion of a bullet impact area. The direct-push drill rig and hollow-stem auger drill rig could not access the proposed location because of a steep slope and rough terrain unsafe for the two drill rigs. Therefore, a decision was made to relocate sample location HR-87Q-MW18 approximately 200 feet west and topographically downgradient of its proposed location. Direct-push soil samples were successfully collected and the monitoring well installed at that location. This variance will not alter the scope or intent of the Site Investigation at Range 29.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 5-4-2001
Date

Approved by: [Signature] 5/8/01
Date

Project Manager Approval: Jeanne Yacoub 5/9/01
Date

QA Approval: [Signature] 5/21/01
Date



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Variance No: PARCEL87Q-XOCTOBER01.VR2

Linked w/NC No: X

Date of Issue: 10/03/01

Page 1 **of** 1

Project Name: Fort McClellan – CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed collection of groundwater samples for chemical analysis from twelve residuum monitoring wells; HR-87Q-MW01, HR-87Q-MW02, HR-87Q-MW03, HR-87Q-MW04, ~~HR-87Q-MW05~~, HR-87Q-MW09, HR-87Q-MW10, HR-87Q-MW11, HR-87Q-MW13, HR-87Q-MW16, HR-87Q-MW17 and HR-87Q-MW19. Groundwater samples were not collected from these twelve wells.

Rm 10-15-01

HR-87Q-MW18 Rm 10-15-01

Identified by: Jeffrey Tarr, PG – IT Site Manager

Date: 10-03-01

II. Justification for Variance:

During drilling and monitoring well installation activities competent bedrock was encountered at twelve residuum well locations, but groundwater was not present. Based upon previous drilling and well installation activities at Fort McClellan, groundwater tends to migrate along the soil \ bedrock interface. Therefore, a decision was made to install the wells on top of competent bedrock with the intent of having groundwater enter the well screen during periods of heavy rainfall. To date, groundwater has been present in some of the wells, but not enough to collect samples. Currently, these twelve wells are being monitored for the presence of groundwater. Should any of these twelve wells contain groundwater, samples will be collected for chemical analysis.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager **10-3-2001**
Date

Approved by: *COE* *Carol A. Pope* **10/04/01**
Date

Project Manager Approval: *Jeanne Yacoub* **10/8/01**
Date

QA Approval: *Ross L. McCollum* **10-8-01**
Date



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Variance No: PARCEL87Q-XOCTOBER01.VR1

Linked w/NC No: X

Date of Issue: 10/31/01

Page 1 **of** 1

Project Name: Fort McClellan – CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed groundwater samples be collected from each existing monitoring well and analyzed for three chemical parameters; metals, nitroexplosives and perchlorate. Groundwater samples collected from monitoring well HR-87Q-MW12 were analyzed for those parameters and volatile organic compounds, semivolatile organic compounds, chlorinated herbicides, chlorinated pesticides and organophosphorus pesticides. These additional chemical parameters were proposed because well HR-87Q-MW12 is located downgradient of a fill area. Chlorinated pesticides and chlorinated herbicides were detected in the groundwater samples collected from well HR-87Q-MW12 at concentrations exceeding Site-Specific Screening Levels (SSSLs). Therefore, a decision was made to recollect groundwater samples and analyze for chlorinated pesticides, chlorinated herbicides and organophosphorus pesticides from three monitoring wells HR-87Q-MW05, HR-87Q-MW14 and HR-87Q-MW15. These chemical parameters were not proposed in the FSSFSP.

Identified by: Jeffrey Tarr, PG – IT Site Manager

Date: 10-31-01

II. Justification for Variance:

Chlorinated herbicides and chlorinated pesticides were detected in the groundwater samples collected from monitoring well HR-87Q-MW12 at concentrations exceeding SSSLs. The IT Project Manager made a decision to recollect groundwater samples from three monitoring wells HR-87Q-MW05, HR-87Q-MW14 and HR-87Q-MW15 and analyze those samples for chlorinated herbicides, chlorinated pesticides and organophosphorus pesticides. These chemical parameters were not proposed in the FSSFSP. These three wells were chosen because of their close proximity to the fill area and monitoring well HR-87Q-MW12. Therefore, groundwater samples were recollected from these three wells to determine the presence or absence of chlorinated herbicides, chlorinated pesticides and organophosphorus pesticides. Recollecting groundwater samples from these wells will more accurately determine if those constituents exist in the groundwater and provide data for any future remedial action.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 11-6-2001
Date

Approved by: *COE* *Dorothy* 11/6/01
Date

Project Manager Approval: *Jeanne Yacoub* 11/11/01
Date

QA Approval: *Randy L. McBride* 11-8-01
Date



Variance No: PARCEL#87JANUARY01.VR5

Linked w/NC No:

X

Date of Issue: 1/31/01

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Project Name: Fort McClellan - CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X:

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface water sample and sediment sample at sample location HR-87Q-SW\SD01. Surface water and sediment were not collected at this location. A depositional soil sample HR-87Q-DEP05 was collected at this location.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87Q-SW\SD01, but was not collected because surface water and sediment was not present. Several attempts were made to collect a surface water sample and sediment sample at sample location HR-87Q-SW\SD01, but all attempts were unsuccessful. A depositional soil sample HR-87Q-DEP05 was collected approximately 200 feet northwest of proposed sample location HR-87Q-SW\SD01 to more accurately determine the presence or absence of contamination. Proposed sample location HR-87Q-SW\SD01 was moved to a topographical lower elevation where contaminant runoff would most likely accumulate.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcel 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager

3-5-01

Date

Approved by:

Ellis C. Pope

3/8/01

Date

Project Manager Approval:

Jeanne Yacoub

3/13/01

Date

QA Approval:

Randy McBride

3/13/01

Date



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Variance No: PARCEL87JANUARY01.VR6

Linked w/NC No:

X

Date of Issue: 1/31/01

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Project Name: **Fort McClellan** – CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29 FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X.

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface water sample and sediment sample at sample location HR-87Q-SW\SD02. Surface water and sediment were not collected at this proposed sample location. A depositional soil sample HR-87Q-DEP01 was collected at this location.

Identified by: **Jeffrey Tarr, PG – IT Site Manager**

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87Q-SW\SD02, but was not collected because surface water and sediment was not present in the intermittent stream. Several attempts were made to collect a surface water sample and sediment sample at sample location HR-87Q-SW\SD02, but all attempts were unsuccessful. A depositional soil sample HR-87Q-DEP01 was collected approximately 600 feet west of the proposed surface water and sediment sample location HR-87Q-SW\SD02 to determine the presence or absence of contamination. Depositional soil sample HR-87Q-DEP01 was collected at a topographical lower elevation where contaminant runoff would potentially accumulate.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcel 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager *Jeffrey Tarr* 3-5-01 Date

Approved by: *Ellis C. Pope* 3/8/01 Date

Project Manager Approval: *Jeanne Yacoub* 3/14/01 Date

QA Approval: *Randy McBride* 3/13/01 Date



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87QJANUARY01.VR1

Linked w/NC No:

X

Date of Issue: 1/31/01

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Project Name: **Fort McClellan – CK10 \ WAD11**

Project Number: 796887.11020300

-Variance Report -

I.Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface water sample and sediment sample at sample location HR-87-SWSD03. Surface water and sediment were not collected at this location. A depositional soil sample HR-87-DEP01 was collected at this location.

Identified by: Jeffrey Tarr, PG – IT Site Manager

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87-SWSD03, but was not collected because surface water and sediment was not present in the drainage creek. Several attempts were made to collect a surface water sample and sediment sample from the drainage creek, but all attempts were unsuccessful. A depositional soil sample HR-87-DEP02 was collected at this location to determine the presence or absence of contamination.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 3-5-01

Date

Approved by: Ellis C. Pope 3/8/01

Date

Project Manager Approval: Jeanne Yacoub 3/14/01

Date

QA Approval: Randy McBride 3/21/01

Date

RM
3/13



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Variance No: PARCEL87JANUARY01.VR7

Linked w/NC No: X

Date of Issue: 1/31/01

Page 1 of 1

Project Name: **Fort McClellan – CK10 \ WAD11**

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29 FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X.

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface water sample and sediment sample at sample location HR-87Q-SWSD04. Surface water and sediment were not collected at this proposed sample location. A depositional soil sample HR-87Q-DEP04 was collected at this location.

Identified by: **Jeffrey Tarr, PG – IT Site Manager**

Date: **1-31-01**

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87Q-SWSD04, but was not collected because surface water and sediment was not present in the intermittent stream. The intermittent stream was present approximately 200 feet southeast of the proposed location shown on Figure 4-1 of the FSSFSP. Several attempts were made to collect a surface water sample and sediment sample at sample location HR-87Q-SWSD04, but all attempts were unsuccessful. Therefore, a depositional soil sample HR-87Q-DEP04 was collected approximately 200 feet southeast of the proposed surface water and sediment sample location HR-87Q-SWSD04 to determine the presence or absence of contamination. Depositional soil sample HR-87Q-DEP04 was collected at a topographical lower elevation where contaminant runoff would potentially accumulate.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcel 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: **Jeffrey Tarr, PG - IT Site Manager** **3-5-01** Date

Approved by: **Ellis G. Pope** **3/8/01** Date

Project Manager Approval: **Jeanne Yacoub** **3/14/01** Date

QA Approval: **Randy McBride** **3/13/01** Date



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87QJANUARY01.VR2

Linked w/NC No:

X

Date of Issue: 1/31/01

Page 1 of 1

Project Name: Fort McClellan - CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan proposed a surface water sample and sediment sample at sample location HR-87Q-SWSD05. Surface water and sediment were not collected at this location. A depositional soil sample HR-87Q-DEP06 was collected at this location.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87Q-SWSD05, but was not collected because surface water and sediment was not present in the drainage ditch. Several attempts were made to collect a surface water sample and sediment sample at sample location HR-87Q-SWSD05, but all attempts were unsuccessful. A depositional soil sample HR-87Q-DEP06 was collected at this location to determine the presence or absence of contamination.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager

3-5-01

Date

Approved by:

Ellis C. Pope

3/8/01

Date

Project Manager Approval:

Jeanne Yacoub

Date

QA Approval:

Randy McBride

3/13/01

Date



INTERNATIONAL
TECHNOLOGY
CORPORATION

Variance No: PARCEL87QJANUARY01.VR3

Linked w/NC No: X

Date of Issue: 1/31/01

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Project Name: Fort McClellan - CK10 \ WAD11

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X:

The Final Site-Specific Field Sampling Plan proposed a surface water sample and sediment sample at sample location HR-87Q-SWSD07. Surface water and sediment were not collected at this location. A depositional soil sample HR-87Q-DEP07 was collected at this location.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample was proposed at sample location HR-87Q-SWSD07, but was not collected because surface water and sediment was not present in the drainage ditch. Several attempts were made to collect surface water and sediment, but all attempts were unsuccessful. A depositional soil sample HR-87Q-DEP07 was collected at this location to determine the presence or absence of contamination.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan
Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 3-5-01
Date

Approved by: Ellis C. Pope 3/8/01
Date

Project Manager Approval: Jeanne Yacoub 3/14/01
Date

QA Approval: Randy McBride 3/13/01
Date



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Variance No: PARCEL87QJANUARY01.VR4

Linked w/NC No:

X

Date of Issue: 1/31/01

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Project Name: **Fort McClellan – CK10 \ WAD11**

Project Number: 796887.11020300

-Variance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN, RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X:

The Final Site-Specific Field Sampling Plan proposed a surface water sample and sediment sample at sample location HR-87Q-SWSD08. A surface water sample and sediment sample was not collected at this location. A depositional soil sample HR-87Q-DEP03 was collected at this location.

Identified by: Jeffrey Tarr, PG – IT Site Manager

Date: 1-31-01

II. Justification for Variance:

A surface water sample and sediment sample were not collected at proposed sample location HR-87Q-SWSD08, but was not collected because surface water and sediment was not present in the drainage ditch. Several attempts were made to collect surface water and sediment, but all attempts were unsuccessful. A depositional soil sample HR-87Q-DEP03 was collected at this location to determine the presence or absence of contamination.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site Specific Safety and Health Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcels 110Q and 111Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager

3-5-01

Date

Approved by:

Ellis C. Pope 3/8/01

Date

Project Manager Approval:

Jeanne Yacoub 3/14/01

Date

QA Approval:

Randy McBride 3/13/01

Date



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

Non Conformance No:

PARCEL87Q-
XOCTOBER01.NC1

Linked w/NC No:

x

Date of Issue:

10-13-01

Page 1 of 1

Project Name: Fort McClellan – CK 10 \ WAD 11

Project Number: 796887.11020300

-NonConformance Report -

I. Description: (by the person identifying the change)

FINAL SITE-SPECIFIC FIELD SAMPLING PLAN; RANGE 29, FORMER WEAPONS DEMONSTRATION RANGE, PARCEL 87Q-X

The Final Site-Specific Field Sampling Plan (FSSFSP) proposed a surface soil sample, subsurface soil sample and groundwater sample at four locations HR-87Q-MW06, HR-87Q-MW07, HR-87Q-MW08 and HR-87Q-MW20. Soil and groundwater samples were not collected at these locations.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 10-13-01

II. Proposed Corrective Action:

The FSSFSP proposed a surface soil sample, subsurface soil sample, drilling and installation of four monitoring wells for the collection of four groundwater samples at sample locations HR-87Q-MW06, HR-87Q-MW07, HR-87Q-MW08 and HR-87Q-MW20. Proposed locations HR-87Q-MW06, HR-87Q-MW07, and HR-87Q-MW08 were proposed in an Ordnance Impact Area and proposed location HR-87Q-MW20 was proposed within a fill area at Range 29. The Final Site-Specific Unexploded Ordnance (UXO) Safety Plan proposed UXO personnel conduct access surveys of the footpaths and vehicle lanes approaching and leaving each proposed sample location. However, numerous surface ordnance and subsurface anomalies were encountered during the UXO access survey. The IT Site Manager made a decision to relocate the four sample locations so that samples could be collected, but numerous surface ordnance and subsurface anomalies were again encountered. The IT UXO field technicians were not able to provide a safe access corridor using anomaly avoidance procedures for the direct-push drill rig to collect soil samples or the hollow-stem auger rig to install wells for the collection of groundwater samples. Therefore, soil and groundwater samples were not collected at these locations.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Site-Specific Safety Plan, and Site-Specific Unexploded Ordnance Safety Plan Attachments: Range 29, Former Weapons Demonstration Range, Parcel 87Q-X, Former Rifle Ranges, Parcel 110Q, and Former Impact Area, Parcel 239Q-X, November, 2000.

Distribution List:

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6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager 10-15-2001

Date

Approved by: Stanley E. Parrott (USACE) 10-16-01

Date

Project Manager Approval: Jeanne Yacoub 10/24/01

Date

QA Approval: Randy McBride 10-20-01

Date